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              FRDA_MOUSE
                             RESULT 6
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                                                                                                                            Query Match
Best Local S
Matches 5
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"Structure of CD8 alpha and beta chains of the orangutan: novel patterns of mRNA splicing encoding hingeless polypeptides.";

Immunogenetics 36:121-125(1992).

-i- PUNCTION: IDENTIFIES CYTOTOXIC/SUPPRESSOR T-CELLS THAT INTERACT WITH MHC CLASS I BEARING TARGETS. CD8 IS THOUGHT TO PLAY A ROLE IN THE PROCESS OF T-CELL MEDIATED KILLING. CD8 ALPHA CHAINS BINDS TO CLASS I MHC MOLECULES ALPHA-3 DOMAINS.

--- SUBJUNT: IN GENERAL HETERODIMER OF AN ALPHA AND A BETA CHAIN LINKED BY TWO DISULFIDE BONDS. CAN ALSO FORM HOMODIMERS.

--- SUBCELLULAR LOCATION: Type I membrane protein.

--- SIMILARITY: CONTAINS 1 IMMUNOCLOBULIN-LIKE V-TYPE DOMAIN.
                                                                                                                                                                                                   DOMAIN
DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                           This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute: There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
FRDA_MOUSE
                                                                                                                                                                                                                                                                                        CHAIN
                                                                                                                                                                                                                                                                                                                           Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
Immunoglobulin domain; Transmembrane; Glycoprotein; T-cell;
                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-APR-1993 (Rel. 25, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
T-cell surface glycoprotein CD8 alpha chain precursor (T-lymphocyte differentiation antigen T8/LEU-2).
                                                                                                                                                                                                                                                                                                                                                          Pfam; PF00047
                                                                                                                                                                                                                                                                                                                                                                     InterPro; IPR003006; Ig_MHC.
InterPro; IPR003596; Ig_v.
                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; X60223; CAA42784 1; -. HSSP; P01732; 1CD8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN=Isolate Jari;
MEDLINE=92307742; PubMed=1612644;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                     SEQUENCE
                                                                                                                                                                                                                                DOMAIN
                                                                                                                                                                                                                                              TRANSMEM
                                                                                                                                                                                                                                                           DOMAIN
                                                                                                                                                                                                                                                                                                      SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pongo pygmaeus (Orangutan)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CD8A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         P30433;
01-APR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CD8A_PONPY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=9600
                                                                    11111
123 MYFSH 127
                                                                                                  3 MYFSH 7
                                                                                                                                                                                                                                                                                                                   response; Signal.
                                                                                                                            Similarity
5; Conser
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146
167
22
43
                                                                                                                            ilarity 100.0%; I Conservative 0;
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 STANDARD;
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166
198
135
115
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                                                                                                                                                                                     22099
                                                                                                                                                          33.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Created)
                                                                                                                                                                                     WW;
                                                                                                                           Score 5; DB 1; Pred. No. 42; 0; Mismatches
                                                                                                                                                                                                   POTENTIAL.

CYTOPLASMIC (POTENTIAL).

IG-LIKE V-TYPE DOMAIN.

BY SIMILARITY.
                                                                                                                                                                                                                                                                       CHAIN
                                                                                                                                                                                                                                                                                     BY SIMILARITY.
T-CELL SURFACE GLYCOPROTEIN CD8
                                                                                                                                                                                                                                                         EXTRACELLULAR (POTENTIAL)
PRT;
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                                                                                                                                                                                     F3EC093EADB05561 CRC64;
207
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                                                                                                                            0;
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RESULT
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BA_HUMAN

DEBRA_HUMAN

C PO1732;
C PO1732;
T 21-JUL-1986 (Rel. 01, Created)
T 21-JUL-1986 (Rel. 01, Last sequence update)
JT 15-JUN-2002 (Rel. 41, Last annotation update)
DE T-cell surface glycoprotein CD8 alpha chain prec
                                                                                                                                                                                               CD8A_HUMAN
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Best Local
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15-JUL-1999
15-JUL-1999
15-JUN-2002
SEQUENCE FROM N.A. MEDLINE-85099337; Pub Littman D.R., Thomas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through a cettween the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are in restrict the European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Studies of human, mouse and yeast homologues function for frataxin.";
Nat. Genet. 16:345-351(1997).
-i- FUNCTION: PROBABLY INVOLVED IN IRON HOMEOS-
-i- SUBCELLULAR LOCATION: Mitochondrial.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A., AND CHARACTERIZATION MEDLINE=97385237; Pubmed=9241270; Koutnikova H., Campuzano V., Foury F., D
                                                                       Homo sapiens (Human)
Eukaryota, Metazoa; (
                                                                                                                                                                                                                                                                                                                                                                                         proDom; PD006646; Frataxin_like; 1
prOSITE; PS01344; FRATAXIN_1; 1.
prOSITE; PS50810; FRATAXIN_2; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro; IPR001794; Frataxin.
InterPro; IPR002908; Frataxin_like.
Pfam; Pf01491; Frataxin_Cyay; 1.
PRINTS; PR00904; FRATAXIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; U95736; AAB67778.1;
HSSP; Q16595; lDLX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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Mammalia; Eutheria;
                                                NCBI_TaxID=9606;
                                                              Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                          CHAIN
                                                                                                                                                                                                                                                                                                                                                                     TRANSIT
                                                                                                                                                                                                                                                                                                                                                                                 Mitochondrion;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MGD; MGI:1096879;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Koenig M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=10090;
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                                                                                                                                                                                                                                               RHAHL
                                                                                                                                                                                                                                                                                                        Similarity
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207 AA;
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(Rel.
(Rel.
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38,
 PubMed=3871356;
mas Y., Maddon P
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22924 MW;
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Rodentia;
                                                              Chordata;
Primates;
                                                                                                                                                                                                                                                                                           33.3%; Score 5; DB
100.0%; Pred. No. 44
tive 0; Mismatches
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  Maddon P.J.,
                                                                                                                                                                                                                                                                                                                                                      MITOCHONDRION (BY SIMILARITY). FRATAXIN.
                                                              Craniata; Vo
Catarrhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Craniata; Vertebratu; E
Sciurognathi; Maridae:
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  Chess L.,
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ong as its ocutent
                                                                          Vertebrata: Euteleostomi;
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                                                              Hominida∈;
                                                                                                                        precursor (T-lymphocyte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Р.,
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  Axel R.;
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MBL outstation -
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